

AMENDMENTS TO THE CLAIMS

Claim 1 (Currently Amended): A method for recognizing a request for data transmission by a mobile/base station RRC (Radio Resource Control) using a network transfer device, by which the mobile/base station RRC can recognize the request for data transmission using the network transfer device in a state where recognition of the request for data transmission is disabled, the method comprising:

(a) the mobile/base station RRC setting the network transfer device in a suspend state to recognize a request for data transmission from an up/down link;

(b) the network transfer device in the suspend state recognizing the request for data transmission to the up/down link, and sending a message to the mobile/base station RRC to inform the mobile/base station RRC that it recognizes the request for data transmission;

(c) the mobile/base station RRC recognizing the request for data transmission according to a received message from the network transfer device and transiting to an active state; and

(d) the network transfer device transiting to the active state using the mobile/base station RRC.

Claim 2 (Original): The method as claimed in claim 1, wherein the network transfer device comprises an RLC (Radio Link Control) protocol control network of the mobile/base station.

Claim 3 (Original): The method as claimed in claim 1, wherein the network transfer device is a PDCP (Packet Data Convergence Protocol) control network of the mobile/base station.

Claim 4 (Original): The method as claimed in claim 1, wherein (a) comprises:

(a-1) the base station RRC setting the base station RLC in the suspend state and then setting a base station PDCP in the suspend state; and

(a-2) the mobile station RRC setting the mobile station RLC in the suspend state and then setting a base station PDCP in the suspend state.

Claim 5 (Original): The method as claimed in claim 1, wherein (a) comprises:

(a-1) the base station RRC setting a base station RLC in the suspend state and then setting a base station PDCP in the suspend state; and

(a-2) the mobile station RRC setting a base station RLC in the suspend state.

Claims 6-8 (Canceled)